BRUHAT BANGALORE MAHANAGARA PALIKE

Asst.Executive Engineer,
Project Sub Division,

Name of Work :- Improvements Of Mallasandra Govt School Compound Other Development Works in Mallasandra Ward No 13 Shettyhalli Sub Division

Est Cost:50.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE
EXCECUTIVE ENGINEER DASHARAHALLI DIVISION

NAME OF WORK :- Improvements to Mallasandra Govt School Compound other development Works in Mallasandra Ward No.13, Shettyhalli Sub Division

Est Cost: Rs.50.00 Lakhs

Sl. No	Description of work	Mesurement				Qty	Unit	Rate	Amount
		Nos	L	B	D				
1	KSRB 2-2.2 Earth work excavation for foundation of building, culverts, water supply sanitary lines, and electrical conduits either pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m in depth including dressing bottom and sides of pits and trenches, stacking excavated soil clear from edges of excavation with lead up to 50m after breaking of clods complete as per specifications.								
	for columns main gate	4	1.00	1.20	1.20	5.76			
	for passage behind	1	19.00	1.00	0.45	8.55			
		1	30.00	1.30	0.45	17.55			
		1	16.00	2.20	0.45	15.84			
		1	30.00	1.30	0.45	17.55			
		1	2.30	1.30	0.45	1.34			
		1	8.30	1.00	0.45	3.73			
	for Foundation	1	26.15	1.20	1.20	37.65			
	For C C Pavement	1	16.00	16.00	0.45	115.20			
		1	5.50	17.00	0.45	42.07			
	Basic Rate	189.00				**265.24**	**Cum**	**288.12**	**76420.95**
	AW 8%	15.12							
	Total	***204.12***							
	Disposing at Lead of 5km(2.5X1.28X5)	16.00							
	Loading & Unloading	68.00							
	Final Rate	**288.12**							
2	KSRB 4 -1.3 : Providing and laying in position plain cement concrete of mix 1;3;6 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (PWD SR 2016-17, Page No.12, Item No. 4.2)								
	for columns main gate	4	1.20	1.20	0.15	0.86			
	for passage behind	1	19.00	1.00	0.15	2.85			
		1	30.00	1.30	0.15	5.85			

		1	16.00	2.20	0.15	5.28			
		1	30.00	1.30	0.15	5.85			
		1	2.30	1.30	0.15	0.44			
		1	8.30	1.05	0.15	1.30			
	for Foundation	1	26.15	1.20	0.15	4.70			
	For C C Pavement	1	16.00	16.00	0.15	38.40			
		1	5.50	17.00	0.15	14.02			
	Basic Rate	5046.00				**79.55**	**Cum**	**5449.68**	**433522.00**
	AW 8%	403.68							
	Total	**5449.68**							
3	Providing and Laying in position reinforced cement concrete of design mix M25 with OPC cement @ 320Kgs with 20mm and down size graded granite metal course aggregate @ 0.878cum and fine aggregate @ 0.459cum, with superplastisiser @ 3ltr confirming to IS 9103-1999 Reaffirming 2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground level for roof slab, stairecase, lintels, retaining wall , return wall, wall (any thickness) including attahed plasters, column , piers, abutmentspillers, posts, struts, buttresses, string or laceing courses, parapets, coping, bed blocks, anchor hooks plain window cill, fillets, etc.., including cost of all materials, Labours, HOM of Machineries, curing complete as per specification (Page No 13-Item No : 4.12 @ P.W.D SR 2016-17)								
	for Arch Column	4	1.20	1.20	0.60	3.45			
	For Colu	4	0.25	0.45	4.25	1.91			
	For Bean	2	5.25	0.25	0.30	0.79			
	For Roof	4	5.25	1.25	0.15	3.94			
	For Linte	1	219.80	0.45	0.10	9.89			
		1	219.80	0.20	0.15	6.59			
		1	26.15	0.45	0.10	1.18			
		2	26.20	0.20	0.15	1.57			
						29.32	**cum**	**6876.36**	**201580.00**
	Basic Rate	**6367.00**							
	AW 8%	509.36							
	Total	**6876.36**							
4	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square /rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 (P.No.16, I.No.4.32 of P,W, D S.R 2016-17)								
	For Columns	4	1.45		4.00	23.20			
	For Beams	2	5.25		1.40	14.70			
	For Roof	4	5.25		1.5	31.50			

	Sides	4	5.25		0.30	6.30			
		8	1.3		0.30	3.12			
	For Lintels	4	219.80		0.30	263.76			
		4	26.15		0.30	31.38			
						373.96	**Sqm**	**395.28**	**147819.00**
	Basic Rate	**366.00**							
	AW 8%	29.28							
	Total	**395.28**							
5	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and achoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No.KBS 4.6.3 (P.No.19, I.No.4.46.2)								
	Arch Qty vide item No. (	29.31	142.00			4162.02			
						4162.02	**Kgs**		
						4.16	**ton**	**65455.56**	**272295.00**
	Basic Rate	**60607.00**							
	AW 8%	4848.56							
	Total	**65455.56**							
6	KSRRB : Providing and constructing granite / trap / basalt size stone masonry in Foundation with cement mortar 1 :6, and hammered dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. (Page No-23, Item No-5.6)						-		
		1	26.45	0.90	0.95	22.61			
		1	26.40	0.60	0.60	9.50			
						32.12	**cum**	**4521.96**	**145240.00**
	Basic Rate	**4187.00**							
	AW 8%	334.96							
	Total	**4521.96**							
7	KSRRB : Providing and constructing granite / trap / basalt size stone masonry in Basement with cement mortar 1 :6, and hammered dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No-23, Item No-5.9)								
	towards hospital (raisim	1	28.00	0.75	1.80	31.50			

		1	26.15	0.60	0.60	9.41			
		1	18.00	0.90	1.50	19.68			
		1	5.8	0.60	0.80	2.78			
		1.0	6.10	0.60	0.90	3.29			
						66.66	**cum**	**5405.40**	**360324.00**
	Basic Rate	**5005.00**							
	AW 8%	400.40							
	Total	**5405.40**							
8	KSRRB : Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (Page no-254, Item no-34.13.2)								
	Hospital side	1	6.10		1.00	6.10			
		2	28.0		1.90	106.40			
		1	18.0		1.60	28.80			
		2	26.15		0.60	31.38			
						172.68	**Sqm**	**105.84**	**18276.00**
	Basic Rate	**98.00**							
	AW 8%	7.84							
	Total	**105.84**							
9	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 4.00 Newton per sqm with cement mortar 1:4 masnory (quoin, Jamb, closer blocks) with solid blocks of size 400X200X200cms confirming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffoldin, curing complete as per specifications. (Pg.No.25, It.No.5.26.1)								
		1	219.80		2.15	472.57			
		1	26.15		1.35	35.30			
						507.87	**Sqm**	**1011.96**	**513944.00**
	Basic Rate	**937.00**							
	AW 8%	74.96							
	Total	**1011.96**							
10	KSRB 15.3.10: Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(P.No113-I.No.15.18)								
	for compound wall	2	219.80		2.10	923.16			
		1	219.80		0.20	43.96			
		2	26.15		1.35	70.60			
		2	26.15		0.20	10.46			
	Pillars	45	0.60		2.15	58.05			
		7	0.55		1.20	4.620			
						1110.85	**Sqm**	**279.72**	**310727.00**
	Basic Rate	**259.00**							
	AW 8%	20.72							
	Total	**279.72**							

11	KSRRB : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size gaded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459 Cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted for coping, including cost of all materials, Jabour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (Page no-254, Item no-34.11)								
	Coping								
		1	24.00	0.75	0.10	1.80			
	SSM wall	1	28.00	0.75	0.10	2.10			
	for Solid blocks bottom & top	1	219.50	0.20	0.10	4.39			
	SSM wall	1	26.15	0.60	0.10	1.56			
						9.85	**Cum**	**5716.44**	**56307.00**
	Basic Rate	**5293.00**							
	AW 8%	423.44							
	Total	**5716.44**							
12	Providing and fixing M.S. gate as per Chief architect drawing Complete All the steel surface should thoroughly cleaned free of rust and painted with anti compositive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment and electricity charges with lead & lift loading, unloading charges etc.,complete as per specifications. (Data rate)								
	for gate	4	2.20		2.51	22.08			
	Data Rate Approved					**22.08**	**Sqm**	**12475.00**	**275448.00**
13	Fabricating, supplying & erecting M.S. angular Truss for all spans as approved de. The entiretruss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification.. Complete as per the direction of Engineer-in-Charge of the work								
	50X50X6mm iron posts	120	2.50	@	4.47	1341.00			
	1 post lenth =2.5m					**1341.00**	**kgs**	**126.36**	**169449.00**
	Basic Rate	**117.00**							
	AW 8%	9.36							
	Total	**126.36**							

14	Providing barbed GI wire fencing of 12x12 gauge drawn into stone pillars or iron pillars including drawing in holes wherever necessary excluding the cost of pillars but including the cost of barbed wire and binding wire etc., complete. (Pg No.262, It No/37.5)								
	1mmc/c	1	8000.00			8000.00			
						8000.00	**mtr**	**30.24**	**241920.00**
	Basic Rate	**28.00**							
	AW 8%	2.24							
	Total	**30.24**							
15	Providing and applying one coat primer of approved brand on wall surface after thoroughly brooming the surface to remove all dirt, dust,morter drops and other an foreign matter including preparing the surface,even and sand paper smooth, cost of materilas , labour, complete as per specification. (page no 116-Item No 15.46.1)								
	Qty vide item No. 10					**1110.85**	**Sqm**	**27.00**	**29993.00**
	Basic Rate	**25.00**							
	AW 8%	2.00							
	Total	**27.00**							
16	Providing and finishing External walls in two coats over one coat of 100% acrylic silicon glaze primer with antifungal paint for coat of approved brand and shade to give an even shade after thouroughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materilas , labour, complete as per specification. (page no 125-Item No 15.104)								
	Qty vide item No. 10					**1110.85**	**Sqm**	**163.08**	**181157.00**
	Basic Rate	**151.00**							
	AW 8%	12.08							
	Total	**163.08**							
17	Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work..(PWD SR 2016-17, Page No.142, Item No. 19.1) including Conveying the excavated earth silt, debris and over burden earth etc., to lead of 0 to 5 kms distance by using private vehicle this includes the cost of loading and unloading charges etc., complete as per the direction of Engineer-in-charge of the work								

	for CC road								
	Debris	1	50.00	8.00	2.80	1120.00			
		1	15.30	18.00	2.50	688.50			
		1	8.00	4.80	2.00	76.80			
		1	9.70	1.25	2.00	24.25			
		1	17.00	1.00	2.00	34.00			
		1	35.00	2.60	2.00	182.00			
					Total qty.	**2125.55**	**cum**	**172.56**	**366785.00**
	Basic Rate	82.00							
	AW 8%	6.56							
	Total	***88.56***							
	Disposing at Lead of 5km(2.5X1.28X5)	16.00							
	Loading & Unloading	68.00							
	Final Rate	**172.56**							
18	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.Page No 149/ Item No. 19.64 PWD SR 2016-17								
		1	30.00	1.30		39.00			
		1	16.00	2.20		35.20			
		1	19.00	1.00		19.00			
		1	32.30	1.30		41.99			
		1	8.30	1.00		8.30			
		1	16.00	16.00		256.00			
		1	5.50	17.00		93.50			
						492.99	**Sqm**	**5.40**	**2662.15**
	Basic Rate	**5.00**							
	AW 8%	0.40							
	Total	**2.00**							
19	Providing, laying, spreading and compacting stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Complete as per specifications. MORTH Specification No.406 [P.No.158- It.No20.18]								
		1	30.00	1.30	0.20	7.80			
		1	16.00	2.20	0.20	7.04			
		1	19.00	1.00	0.20	3.80			
		1	32.30	1.30	0.20	8.40			
		1	8.30	1.00	0.20	1.66			
		1	16.00	16.00	0.20	51.20			
		1	5.50	17.00	0.20	18.70			
						98.60	Cum	**1801.44**	**177618.38**
	Basic Rate	**1668.00**							
	AW 8%	133.44							

20	Provciding and applying enamyl metal paint two coats over(excluding primer coat) over new steel or other metal surface brushing to give an even shade after cleaning oil,greese,dirt and other foreign matter,including cost of materials,labour, complete as per specification (PN0-121,INo-15.74)								
	Gates	8	2.26		2.45	44.30	Sqm	88.56	3923.21
	Basic Rate	**82.00**							
	AW 8%	6.56							
	Total	**88.56**							
21	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17)								
		1	30.00	1.30	0.15	5.85			
		1	16.00	2.20	0.15	5.28			
		1	19.00	1.00	0.15	2.85			
		1	32.30	1.30	0.15	6.30			
		1	8.30	1.00	0.15	1.25			
		1	16.00	16.00	0.15	38.4			
		1	5.50	17.00	0.15	14.03			
					Total qty.	**73.95**	**cum**	**6335.28**	**468484.00**
	Basic Rate	**5866.00**							
	AW 8%	469.28							
	Total	**6335.28**							
22	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery,screed vibratory,power Floater,blade and disc etc., with all lead and lift PWD SR 2016-17[P.No.177 -I.No.22.7]								
		1	30.00	1.30		39.00			
		1	16.00	2.20		35.20			
		1	32.30	1.30		41.99			
		1	16.00	16.00		256.00			
		1	5.50	17.00		93.50			
					Total qty.	**465.69**	**sqm**	**97.20**	**45265.00**
	Basic Rate	**90.00**							
	AW 8%	7.20							
	Total	**97.20**							

23	Providing groove cutting to concrete pavement for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant, etc., including cleaning of grove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all amterials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.(P.No.178, I.No.22.8.1 of PW, P&IWTD SR 2016-17)								
		1	12.00			12.00			
		1	12.00			12.00			
		1	4.80			4.80			
		1	1.20			1.20			
		1	1.00			1.00			
		2	1.40			2.80			
					Total qty.	33.80	Rmt	124.20	4198.00
	Basic Rate	**115.00**							
	AW 8%	9.20							
	Total	**124.20**							
								Sub Total	**4503053.00**
	KRIDL Charges								**495336.00**
	Miscelleneous & Rounding								**1611.00**
								Grand Total Rs.	**5000000.00**
	(Rupees Fifty Lakhs Only)								

CERTIFICATE

1 *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2 *Certified that the work is not split*
3 *Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2016-17*
4 *Certified that Adeqate & necessary provisions have made in the estimate.*
5 *Certified that the above area comes under BBMP limit*

Asst Engineer
Project

Asst.Executive Engineer
Project Sub Division

Executive Engineer
Project Division, Dasarahalli

ನಂ: 39/17-18 ದಿನಾಂಕ: 15/12/2017
ರೂ: 50,00,000/-
fifty Lakhs
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ.

ನಂ.CE/TS/367/17-18 ದಿನಾಂಕ : 18/12/2017
ರೂ. Rs. 50.00 lakhs only/-
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Name of work : Improvements to Mallasandra Govt School Compound Other Developement works in Mallasandra Ward No 13 Shettihally Sub Division.

Asst.Engineer
Project

Asst.Executive Engineer
Project Sub Division.

WARD : 13 - MALLASANDRA

INDEX

- PROPOSED WARD BOUNDARY
- RIVER/DRAIN
- RAILWAY LINE
- ROAD

NOTIFICATION NO. UDD 59 MLR 2009, DATE 15.07.2009